Prafull Purohit

List of Publications by Year in Descending Order

17 papers	579 citations	5 h-index	19 g-index
19 ext. papers	720 ext. citations	4.2 avg, IF	3.28 L-index

#	Paper	IF	Citations
17	Phase Imaging beyond the Diffraction Limit with Electron Ptychography. *Microscopy and Microanalysis*, **2019**, 25, 6-7	0.5	1
16	Electron ptychography of 2D materials to deep sub-ångström resolution. *Nature*, **2018**, 559, 343-349	50.4	269
15	Mapping Polarity, Toroidal Order, and the Local Energy Landscape by 4D-STEM. *Microscopy and Microanalysis*, **2018**, 24, 176-177	0.5	1
14	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. *Microscopy and Microanalysis*, **2018**, 24, 194-195	0.5	
13	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. *Microscopy and Microanalysis*, **2018**, 24, 1588-1589	0.5	
12	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. *Nano Letters*, **2018**, 18, 3746-3751	11.5	50
11	Measuring Orbital Angular Momentum (OAM) and Torque Transfer from Polarization Vortices with the Electron Microscopy Pixel Array Detector. *Microscopy and Microanalysis*, **2017**, 23, 1634-1635	0.5	0
10	Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. *Microscopy and Microanalysis*, **2017**, 23, 444-445	0.5	1
9	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). *Microscopy and Microanalysis*, **2017**, 23, 1712-1713	0.5	
8	An Electron Microscope Pixel Array Detector as a Universal STEM Detector. *Microscopy and Microanalysis*, **2016**, 22, 478-479	0.5	4
7	Electron Diffraction from a Single Atom and Optimal Signal Detection. *Microscopy and Microanalysis* , **2016**, 22, 846-847	0.5	3
6	Reconstruction of Polarization Vortices by Diffraction Mapping of Ferroelectric PbTiO3 / SrTiO3 Superlattice Using a High Dynamic Range Pixelated Detector. *Microscopy and Microanalysis*, **2016**, 22, 472-473	0.5	5
5	High-speed X-ray imaging pixel array detector for synchrotron bunch isolation. *Journal of Synchrotron Radiation*, **2016**, 23, 395-403	2.4	17
4	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. *Microscopy and Microanalysis*, **2016**, 22, 1718-1719	0.5	2
3	High-speed x-ray imaging with the Keck pixel array detector (Keck PAD) for time-resolved experiments at synchrotron sources **2016**,		3
2	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2016**, 22, 237-49	0.5	222
1	Lorentz-STEM imaging of Fields and Domains using a High-Speed, High-Dynamic Range Pixel Array Detector at Atomic Resolution. *Microscopy and Microanalysis*, **2015**, 21, 2309-2310	0.5	1